

19970717.qrp qrp-por0.789
>From owner-qrp-l@Lehigh.EDU Wed Jul 16 18:04 CDT 1997
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
> by uro.theporch.com (8.8.7.Beta2/A-UX-3.1.1) with ESMTP id SAA19254
> for <shimshon@uro.theporch.com>; Wed, 16 Jul 1997 18:04:43 -0500 (CDT)
>Received: from fidoii.CC.lehigh.EDU (fidoii.CC.lehigh.EDU [128.180.1.4])
> by sco.theporch.com (8.8.7.Beta2/SCO-5.0.2) with ESMTP id XAA23078
> for <shimshon@theporch.com>; Wed, 16 Jul 1997 23:04:35 GMT
>Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.Lehigh.EDU with SMTP id
<34849-25666>; Wed, 16 Jul 1997 19:03:41 -0400
>Date: Wed, 16 Jul 1997 19:03:08 EDT
>Sender: owner-qrp-l@Lehigh.EDU
>Precedence: bulk
>From: qrp-l@Lehigh.EDU
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: QRP-L digest 789
>Mime-Version: 1.0
>Content-Type: text/plain; charset=us-ascii
>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>Message-Id: <97Jul16.190341edt.34849-25666+163@fidoii.cc.Lehigh.EDU>
>Status: 0

QRP-L Digest 789

Topics covered in this issue include:

- 1) [23136] Re: Very Low Power/SCS PTC-II
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- 2) [23137] Correct Address.
by "Ron Polityka" <wb3aal@talon.net>
- 3) [23138] Autek RF1, What do you think?
by Jim NOUR <LAGESON@worldnet.att.net>
- 4) [23139] Re: Autek RF1, What do you think?
by Kory Hamzeh <kory@avatar.com>
- 5) [23140] Re: Autek RF1, What do you think?
by Joe Gervais <vole@primenet.com>
- 6) [23141] Question
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- 7) [23142] Something that isn't 'what is low-power thread'
by "Adam B. Kanis" <adam-kanis@uiowa.edu>
- 8) [23143] Re: 38S: filter xtal question
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- 10) [23145] Ramsey QRP kit.
by "Ron Polityka" <wb3aal@talon.net>
- 11) [23146] TRAC keyer
by claudewb9euu@juno.com (CLAUDE PALUSKI)

- 12) [23147] Mars Rover
by Alan Kaul <kaul@netcom.com>
- 13) [23148] Re: NEW QRPer
by N9DD@aol.com
- 14) [23149] TICK keyer info
by haf47@juno.com (Howard Friedman)
- 15) [23150] Re: NEW QRPer
by Joe Gervais <vole@primenet.com>
- 16) [23151] Re: QRP digital modes
by "Claton Cadmus" <aplitech@spacestar.net>
- 17) [23152] HELP, my SST howls
by Kory Hamzeh <kory@avatar.com>
- 18) [23153] Re: DX/QRP ZF2DE/8 QSL VIA?
by Bob Patten <n4bp@shadow.net>
- 19) [23154] Re: TICK keyer info
by Steve Hideg <Steve.Hideg.1@nd.edu>
- 20) [23155]
by Larry Trullinger <kb0emb@swbell.net>
- 21) [23156] SST-Lucky #13!
by talljazz@teleport.com (Dan Presley)
- 22) [23157] Modifying a MOPA -- W1FB's Pebble Crusher Two
by Robert Everitt Heiss <rheiss@volta.ee.calpoly.edu>
- 23) [23158] Re: Something that isn't 'what is low-power thread'
by K4AHK@ix.netcom.com
- 24) [23159] Re: Crap antennas & zip cord thread or wire or something
by NilsBull@aol.com
- 25) [23160] Nice Paddles
by Jack Dougherty /RE&C Houston <jdougher@wt.net>
- 26) [23161] Re: 75W Category Proposal
by "Bob Duckworth" <wb4mnf@atl.org>
- 27) [23162] Re: NEW QRPer
by tgordish@concentric.net
- 28) [23163] Re: NEW QRPer - My story
by Rick Powell - WB6JBM <ripowell@mpna.com>
- 29) [23164] OHR 100 & Tuning
by Bob Hightower <ki7mn@dancris.com>
- 30) [23165] Re: QRP digital modes
by AE0Q V31RY <v31ry@ix.netcom.com>
- 31) [23166] Homebrew Sprint and OHR-400
by Joseph Trombino jr <joebarb@wilmington.net>
- 32) [23167] Homebrew Sprint and OHR-400
by Joseph Trombino jr <joebarb@wilmington.net>
- 33) [23168] Mobile QRP HF continues...
by "Earl S. Mead" <k6esmead@pacbell.net>
- 34) [23169] half square
by Paul Cereste <cereste@myapc.com>
- 35) [23170] gif images for qsl cards !!
by John Evans - N0HJ <jaevans@codenet.net>

- 36) [23171] Re: Antennas (was:The 75 watt....)
by pthomson@bruderhof.com
- 37) [23172] rainbow tuner
by "Mike B. Allred" <mallred@fscu.org>
- 38) [23173] Miles per watt
by Brad Mugleston <bmug@gwl.com>
- 39) [23174] Re: NEW QRP'er
by Chris Cartwright <ccart@dns.vidtel.com>
- 40) [23175] Epiphyte 2, more
by "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>
- 41) [23176] Re: TRAC keyer
by FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\)) 267-3135)
- 42) [23177] Re: HELP, my SST howls
by chunt@macromedia.com (Christian Hunt)
- 43) [23178] alias assumed
by "Marshall Emm" <mgemm@mtechnologies.com>
- 44) [23179] Tunerless 40M Dipole
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
- 45) [23180] Re: Miles per watt
by Rick Powell - WB6JBM <ripowell@mpna.com>
- 46) [23181] First Reminder for the FLIGHT OF THE BUMBLEBEES
by Russ Carpenter <russ@natworld.com>
- 47) [23182] First reminder for the AUGUST SPARTAN SPRINT
by Russ Carpenter <russ@natworld.com>
- 48) [23183] Re: Miles per watt
by Joe Gervais <vole@primenet.com>
- 49) [23184] CB Conversion: Crystal mixing schemes
by Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
- 50) [23185] Blue Sky Digial Display
by Steve Bornstein <saborns@freenet.columbus.oh.us>
- 51) [23186] Re: Blue Sky Digital Display
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 52) [23187] 1:1 Choke/Balun
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
- 53) [23188] Re: 1:1 Choke/Balun
by Dale Anderson <dalea@artemis.fc.hp.com>
- 54) [23189] Re: 1:1 Choke/Balun
by Ed Pacyna <pacyna@auratek.com>
- 55) [23190] Coaxial Cable Ratings
by Ed Loranger <we6w@qsl.net>
- 56) [23191] Re: Badgers organizing, getting dangerous?
by Joe Gervais <vole@primenet.com>
- 57) [23192] Coax and Balanced + other at
by Ed Loranger <we6w@qsl.net>
- 58) [23193] 30 M Loop and Alternatives
by ji3m@maxwell.com (James R. Duffey)
- 59) [23194] Price for Alinco DX-70 T in USA please
by Stephen John Farthing <stephen@stevef.demon.co.uk>

60) [23195] WTB insulated shaft coupler
by "J. Skalski" <jskalski@acsu.buffalo.edu>

Date: Tue, 15 Jul 1997 19:00:05 -0400 (EDT)
From: NilsBull@aol.com
To: n4so@juno.com, qrp-1@Lehigh.EDU
Subject: [23136] Re: Very Low Power/SCS PTC-II
Message-ID: <970715190004_617951187@emout01.mail.aol.com>

Now this is getting to the interesting part. But before I stick my nose in the badger hole, let me get this straight (not a key) . . .

There are some folks doing some sort of marginal signal digital work around the 1.75 km band. I suspect that Pactor II is a similar arrangement. If so, this would mean that real QRP (and not the truest of pure QRPs, which can only be attained by OT3 levels and above, personally secchecked by L.Ron Hubbard himself, in any number of incarnations) would work neat here.

And all this time I've hated digital 'cause I couldn't afford it. What a deal.

Now I can get wacko about another mode besides CW at QRP levels and fill out a petition and vote and still have a good time. Without any money left for Dayton '98, the last Hamvention that this green planet of the clocks will ever see (as any good, "Bob" fearin,' Xist-fightin' SubGenius should know).

Hmmm . . . But all I've got are CW rigs. Somehow I smell a marketing ploy here. Too bad I'm half-wacked enough to be interested.

Let the interrogations begin!

73
Nils
WB8IJN &c

Date: Tue, 15 Jul 1997 19:03:28 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [23137] Correct Address.
Message-ID: <199707152304.TAA24413@pelican.talon.net>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="-----"

=_NextPart_000_01BC9151.C7BF1AE0"
Content-Transfer-Encoding: 7bit

This is a multi-part message in MIME format.

-----=_NextPart_000_01BC9151.C7BF1AE0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi, hope everyone is keeping cool during this heat wave. East coast today is around 100°F.

I talked to KK6MC via QRP in a contest. I sent him a QSL card, it came back could not deliver. I checked all databases for his call. I even E-Mailed him and it could not be delivered. I just come up with the following:

James R Duffey KK6MC
15103 Gerkin Ave
Laundale, CA 90260

Can anyone help?

Thanks & Keep Cool !!

73 & Good DXing
Ron de WB3AAL

wb3aal@talon.net

OWL's Radio Club

QRP # 5318	PA QSO Party 1996 Small Club Gavel
G-QRP # 3031	PA QSO Party 1996 Active Member, High
10-10 # 13173	Average Aggregate Award
QRP-L # 1099	

-----=_NextPart_000_01BC9151.C7BF1AE0
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

<html><head></head><BODY bgcolor=3D"#FFFFFF"><p><font size=3D2 =
color=3D"#000000" face=3D"Arial"> Hi, hope everyone is keeping cool =
during this heat wave. East coast today is around 100°F.
 I talked to =
KK6MC via QRP in a contest. I sent him a QSL card, it came back could =
not deliver. I checked all databases for his call. I even E-Mailed him =
and it could not be delivered. I just come up with the =
following:

James R Duffey KK6MC
15103 Gerkin =
Ave
Laundale, CA 90260

Can anyone help?

Thanks =
& Keep Cool !!

73 & Good DXing
Ron de =

> I've been eyeing the Autek RF1 antenna analyser for the last few months and
> am considering buying one. Anyone out there own/used one? I like the price
> when comparing it to the MFJ-259. Life could be so much easier with one of
> these, but I could end up stringing wire up everywhere.
>
> Thanks es 72's Jim-N0UR
>
>
>

Date: Tue, 15 Jul 1997 16:59:07 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [23140] Re: Autek RF1, What do you think?
Message-ID: <199707152359.QAA03938@usr06.primenet.com>

Jim (N0UR) wrote:

> I've been eyeing the Autek RF1 antenna analyser for the last few
> months and am considering buying one. Anyone out there own/used one?

Got one, love it. Only complaints are the touchy tuning
and kinda loose controls (electrically sound, just seem
mechanically funky).

Minor nits for a great tool, IMHO. Niftiest hunk of ham
gear I have, next to my Sierra. ;-) Go for it!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It happens sometimes. People just explode. Natural causes." -Repo Man

Date: Tue, 15 Jul 1997 20:19:17 -0400 (EDT)
From: K4NK@aol.com
To: qrp-1@Lehigh.EDU
Subject: [23141] Question
Message-ID: <970715201909_1827409962@emout12.mail.aol.com>

Please pardon my ignorance about digital modes, but just what does it mean when a station sits on 14.060 for hours and sends a tone or two letters. He then sends his call about every five minutes or so in CW. Is he trying to make contact with another station ? I really know nothing about digital transmission. Are these stations trying just to keep the freq. occupied while they wait for their friends? Perhaps it is intentional. I do know that I listen for 2 Way QRP there and have for years, I can deal with high power CW but this stuff is 2kc wide. Tonites stn is a DL and he is 20 over.

Les K4NK

Date: Tue, 15 Jul 1997 19:19:48 -0500
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
To: qrp-l@Lehigh.EDU
Subject: [23142] Something that isn't 'what is low-power thread'
Message-ID: <2.2.32.19970716001948.00684e70@molsun.ophth.uiowa.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

hi,

just trying to move the list off the topic of the 'what is and isn't low power thread', and doesn't quite do the Q-Dope thread again. i've used hot-melt glue to tack the bottom of my toroids to the pc board. works ok. i've been paranoid trying to keep the stuff off the wire.

does hot-melt glue have much affect on the inductance torroidal inductors if any wires captured in the glue?

i'll do the experiments to find if i don't get the answer, but isn't that what science is about: build knowledge __ON TOP OF__ what others have done.

what other hold down methods do folks with more building experience use. the small gauge solid wires seem kind of flimsy to be holding those big tall toroids agains all directions of stress.

thanks.

73,

--adam

adam-kanis@uiowa.edu

Date: Tue, 15 Jul 1997 20:24:27 -0400
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: Paul Erickson <paul1@wizard.ucsfu.ca>
Cc: qrp-l@Lehigh.EDU
Subject: [23143] Re: 38S: filter xtal question
Message-ID: <3.0.1.16.19970715202427.28ff6a22@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 02:22 PM 7/14/97 -0700, Paul Erickson, VE7CQK wrote:

>
>Thanks for the info. Please let me know when you are done with the
>17s. I have a second 38s I'm deciding what to do with.
>
>cheers, Paul
>VE7CQK
>email: paul1@wizard.ucsfu.ca
>

Will do Paul. I'm listening to code practice from W1AW and the rig
is jumping around on the table. Talk about sensitivity and a good
path to Newington!

I'm using the original 22.1184 MHz xtal for the first Lo, and 4.032
MHz for the i.f.. Getting about 26 KHz of tuning from the VX0,
so it pretty much covers the whole cw portion of the band. I've
got the Tx working up to the final, but haven't listened to the
output on the receiver. Will do that later this evening.

Stay tuned.....

72....Jim

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@mci2000.com		__o H.F. bicycle mobile
Fenton, MI		_`\<, Mizuho 17/40 SSB
...		(*)/(*)
NorCal 38S Log - 34 States;		40 Countries - Running 3 watts
Most recent - Iowa		Mauritius

Date: Tue, 15 Jul 1997 15:02:16 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Cc: "'adams@chuck.dallas.sgi.com'" <adams@chuck.dallas.sgi.com>

Subject: [23144] Straight Key Stuff
Message-ID: <01BC9130.17C3D8E0@pps-pc10.gwl.com>
Content-Type: text

Chuck mentioned in his hints and kinks that Paul NA5N uses plastic milk cartons for dials - I've used the disk out of the 3" disks. Nice and round, has a center hub of metal and strong yet flexible.

I have a J-44 key (Its like the J-38 with a different base (a short switch for voice or teleg. The key doesn't look like it is solid brass but a plated material. What would a can of Brasso do for this key?

Also Chuck recommended Iambic is this A or B (B has the added opposite dit or dah, I believe)?

thanks

de KBØROL, Brad

Date: Tue, 15 Jul 1997 21:42:19 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [23145] Ramsey QRP kit.
Message-ID: <199707160143.VAA28794@pelican.talon.net>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="-----
=_NextPart_000_01BC9167.F84EBCE0"
Content-Transfer-Encoding: 7bit

This is a multi-part message in MIME format.

-----=_NextPart_000_01BC9167.F84EBCE0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello fellow QRPers, anyone out there using the Ramsey QRP transmitter. How do you like the rig and did you notice any problems after it was built.

Also did you build a XIT into the circuit? Where did you get the schematic for the circuit.

wb3aal@talon.net

OWL's Radio Club

QRP # 5318 PA QSO Party 1996 Small Club Gavel
G-QRP # 3031 PA QSO Party 1996 Active Member, High
10-10 # 13173 Average Aggregate Award
QRP-L # 1099
-----=_NextPart_000_01BC9167.F84EBCE0
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

[illegible]

Date: Tue, 15 Jul 1997 21:12:51 -0700
From: claudewb9euu@juno.com (CLAUDE PALUSKI)
To: qrp-1@Lehigh.EDU
Subject: [23146] TRAC keyer
Message-ID: <19970715.211253.2662.0.CLAUDEWB9EUU@juno.com>

Hi All
This is my second attempt at my first message to the list.
Maybe I'll get it right this time.

Bought a TRAC Model te144 keyer at a local hamfest Sunday, and having a problem with it. It makes dits, but doesn't make dahs.

Took off the cover, and with a jumper wire, made both dits and dahs on the keyer jack but it refuses to do it with the paddle.

Went to a buddies place, and had the same results.

If anyone has a copy of the schematic or manual for this item, would be very grateful
for a copy . Would be very grateful to the point that I would reimburse any charges incurred.

72

claudewb9euu@juno.com

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Date: Tue, 15 Jul 1997 19:56:25 -0700 (PDT)
From: Alan Kaul <kaul@netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [23147] Mars Rover
Message-ID: <Pine.3.89.9707151945.A18749-01000000@netcom20>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

ROVER is more 'off-the-shelf' than the rest of the Pathfinder gear. The 100mw signal on 459.7mHz packet to the Lander involved some of the work of Jan Tarsala, WB6VRN, who is one of the trustees of the JPL Ham club (W6VIO). He is also a member of the 'telecom team' which includes a couple of non-hams (or if they are amateurs, I couldn't find a reference to them in QRZ's US license database--their names are Scot Stride and Tom Rebold).

The 9600 baud modem used at both ends of the Rover-to-Lander communications were shelf items for around \$100 each ... they bought 100 of them, spent a couple of hundred thousand dollars testing them, and finally selected two for the trip to Mars. And even though you might have heard that the CCD Camera on Lander is an 'off-the-shelf' item, too, it's not exactly....they started with a Kodak off-the-shelf CCD and spent about \$400,000 testing it and then surrounding it with lenses and electronics. Lander's signal is about 12 watts and interestingly enough, the 'finals' in the transmitter are a number of circuits on a single chip (or chips) whose milliwatts added together make up the amp. Despite the power -- if I remember correctly -- the Project Director said Tuesday the RECEIVED-SIGNAL is about 157-dB down! Compare that to Paul

Harden's tests on the SST (which is described by everyone as a ''hot'' receiver) -- I think it measured 137-dB down. Lander, of course, is aided by 70-meter dish antennas on the receive end.

One more thing about Lander's camera -- the field of view is 14 degrees wide and so to make the wide-angle-panorama picture, it required making a mosaic of a few hundred pieces ----- but in the end, the completed jigsaw puzzle impressed me as being worth it!

I realize this isn't exactly QRP stuff, but I had access to info that isn't available elsewhere and thought some of you might not mind the off-topic posting.

73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

Date: Tue, 15 Jul 1997 23:01:26 -0400 (EDT)
From: N9DD@aol.com
To: ARDUJENSKI@aol.com
Cc: QRP-L@Lehigh.EDU
Subject: [23148] Re: NEW QRPer
Message-ID: <970715230125_681481370@emout10.mail.aol.com>

In a message dated 97-07-15 14:38:22 EDT, you write:

<<

Those dang Northeastern states are a devil even to pick up let alone contact.

ANY SUGGESTIONS (other than patience) from all you old timers on how to improve my chances of reaching those states? >>

Hi Alan

Scour the magazines and look for contests. Get in every one you can. There is no better way to build up your WAS totals in a hurry. The best ops with the best equipment get into contests. They can dig out the QRP signals because they want the points and have the rigs and antennas to do it.

Look for state QSO parties. Most of the states run them. There will be lots of hams on from the states you want on their state's QSO party dates.

Set your station up so you can access a call database while you are listening. Check out every call to see where they are located. Nowadays, a 6 station could be in New England as easily as a 1 call.

I hope these ideas help. Good luck with your WAS!

Tom Frisz N9DD
South Bend, IN

Date: Tue, 15 Jul 1997 22:47:20 EDT
From: haf47@juno.com (Howard Friedman)
To: qrp-1@Lehigh.EDU
Subject: [23149] TICK keyer info
Message-ID: <19970715.224359.7823.0.HAF47@juno.com>

Hello and thanks for reading this request. Is there someone on the list who can tell me where to get info on the TICK keyer? I am looking for info on current consumption, memory capability, cost and where to buy it. I realize this info has appeared before, but not needing one at the time, I didn't save it, and now I wish I had.

Even the name and address would be helpful....thanks es 73, Howie

WA2AFD
haf47@juno.com

Date: Tue, 15 Jul 1997 20:22:22 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: ARDUJENSKI@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [23150] Re: NEW QRPer
Message-ID: <199707160322.UAA24729@usr08.primenet.com>

Alan (KB7MBI) wrote:

> Got into QRP because it was cheapest way to start up. You fellas
> need to put a WARNING LABEL on this because I have become addicted.

Welcome to the best little corner in ham radio! Just wait 'til the Fox Hunt gets started in the Fall. Don't worry, there's a 12-Step program to help you ease off when the season finally

ends. Tragic tales abound of QRPers spending long Spring nights tuning 7.040+/-, desperately concentrating on the QRN in the hopes of hearing even the faintest ghostly echo of the long departed Elusive Furry One. Even more tragic is that some of them actually report working him. :)

> Those dang Northeastern states are a devil even to pick up let alone contact.
> ANY SUGGESTIONS (other than patience) from all you old timers on how to
> improve my chances of reaching those states? My dipole runs NS and SWR less
> than 1.1:1 and is up 30 ft. At that height I figure I should be getting some
> good angles of radiation.

Yes or no, depending on the band, local terrain, etc. My advice - if you seem to have "hit the wall" with a given antenna/band, switch. I had the same NE problems you did. Had worked most of the US with my inverted-vee, except for eastern seaboard states. Just couldn't bag 'em. Finally put up raised Hamstick verts (20/30/40m), and worked all 50 states with them.

Don't feel like you have to stick with one set of antlers!!!

> Still don't see what all the fuss is about QRP designation and power
> levels but I am new at all this too.

"I radiate, therefore I am." Repeat as necessary. :) Nothing else really matters.

Hope to hear you on the air!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And now... The exploding Blue Danube."

Date: Tue, 15 Jul 1997 23:05:30 -0500
From: "Claton Cadmus" <aplitech@spacestar.net>
To: <sgreene@washesq.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23151] Re: QRP digital modes
Message-ID: <199707160411.XAA10530@webster.spacestar.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Steve, KA1LM started this thread with his recent portable packet exploits. I thought I might add a story that could encourage a few of you to venture forth into QRP HF digital.

Several months ago I started the Minnesota QRP Society. My friend Bill, N0BSN, joined the club early on, mostly I think to support my effort. To my knowledge he wasn't a QRPer. His interest was mostly VHF/UHF digital and satellites. Well, meetings filled with HB QRP rigs, kits and talk of DX under 5 watts must have inspired him. One day a couple months back he called me and announced he had bought an MFJ 9020 and matching tuner and was having a good time at the CW key. He then proceeded to ask me if I thought we could use it for HF Pactor. I couldn't think of a reason why not so a few days later he stopped by with the 9020, Kam Plus and a pile of manuals and left it all in my hands to modify.

The modifications turned out to be fairly easy. I installed a din connector to connect to his KAM Plus and a CW/FSK switch on the rear panel. A diode and cap in the transmit mixer oscillator and BFO mixer oscillator. A few extra parts/pots on a small PC board to adjust the oscillators in FSK mode and the 9020 was set up for FSK. (I'll be writing a more detailed description of this mod later, perhaps even an article for a QRP mag.)

Over at Bill's shack we tried it on his tribander and after a couple of last minute adjustments we were locked in to our first station. He was located on the East Coast, sorry but I forget his call. Not bad for about 3-4 watts. Absolutely great fun and the reaction we received from our contacts was one of amazement.

Some days later Bill called to report he had setup his IsoLoop in his driveway on a five foot tripod, hooked up the 9020, KAM and a laptop and had a solid Pactor QSO with a Ham in Oregon! We had this setup at our Field Day Site too, but we were shot down with continuous storms Field Day weekend. Next year will be better only because it couldn't get worse!

Personally, I can't think of a better way to get the HF digital ops to respect QRP and our CW calling frequencies than to jump in there and show them QRP in a way they understand. Not to mention it's a lot of fun too! So if you've been thinking of giving this a try, please do, Bill's looking for that Pactor QRP to QRP QSO.

73 de KA0GKC Claton Cadmus

E-mail cla@spacestar.net

If you live in Minnesota check out this webpage!

<http://www.spacestar.net/users/aplitech/mnqrp/>

Date: Tue, 15 Jul 1997 22:18:21 -0700 (PDT)
From: Kory Hamzeh <kory@avatar.com>
To: qrp-1@Lehigh.EDU
Subject: [23152] HELP, my SST howls
Message-ID: <Pine.BSI.3.91.970715221302.12122A-100000@avatar.avatar.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just finished build my 30M SST, it seems to work well, except for the fact that the receiver starts to howl (go into feedback or oscillation) when I tune to a strong signal and the volume is turned all the way up. If I back down on the volume, the howling stops. While it is howling, the AGC LED is pegged.

This is not a stock build, I've done the following mods:

1. The PA is a MRF237
2. C10 is a 50pf trimmer. What is the correct procedure for determining the optimum setting for C10?
3. I've done the ABX mod as described in the SST manual.
4. I've installed a 39uh choke between X4 and C10.
5. I've removed one turn from L2.

Other than that, its pretty much stock! :-)

The audio sounds a bit muddy, as compared to my Sierra. Is this normal?

Any help would be greatly appreciated.

Thanks,
Kory
AC6RN

Date: Wed, 16 Jul 1997 01:44:29 -0400 (EDT)
From: Bob Patten <n4bp@shadow.net>
To: Werner Jochem <Werner.Jochem@hoexter.netsurf.de>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23153] Re: DX/QRP ZF2DE/8 QSL VIA?
Message-ID: <Pine.SOL.3.91.970716014331.23828C-100000@hyper>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 11 Jul 1997, Werner Jochem wrote:

> ZF2DE/8 - work first worry later?
>
> I picked him up on 20m (14057) tonite. He came in with a strong signal
> working US stations and Europeans. My power was 5 watts on the 84m lazy
> loop.
> But this guy didn't give any qsl information for a period of half an
> hour although he had been asked for it by several stations. I didn't
> find anything in the usual qsl info sources.

QSL via N4BP with SASE

Bob Patten, N4BP	Plantation, FL
n4bp@shadow.net	http://www.shadow.net/~n4bp/n4bp.htm
Brass Pounder BBS (954) 472-7715	

Date: Wed, 16 Jul 1997 00:46:42 -0500
From: Steve Hideg <Steve.Hideg.1@nd.edu>
To: haf47@juno.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23154] Re: TICK keyer info
Message-ID: <v03102805aff21092f121@[129.74.35.69]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

<<http://www.vivanet.com/~gmdsr/>>

At 10:47 PM -0400 7/15/97, Howard Friedman wrote:

>Hello and thanks for reading this request. Is there someone on the list
>who can tell me where to get info on the TICK keyer? I am looking for
>info on current consumption, memory capability, cost and where to buy it.
>I realize this info has appeared before, but not needing one at the time,
>I didn't save it, and now I wish I had.
>
>Even the name and address would be helpful....thanks es 73, Howie
>
>WA2AFD
>haf47@juno.com

Steve Hideg, N8HSC/9 QRP-L #136
Check out the Internet QRP Club's site on the WorldWide Web:
<<http://qrp.cc.nd.edu/QRP-L/>>

Date: Wed, 16 Jul 97 02:43:29 -0500
From: Larry Trullinger <kb0emb@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Message-ID: <199707160739.CAA20260@SWBELL.net>

-- [From: Larry Trullinger * EMC.Ver #2.5.02] --

Check the TICK out at - <http://www.vivanet.com/~embres/>
or
Email is embres@vivanet.com

They have the data sheet for the TICK off the main page. Thinking about getting the surface mount kit for 'pasting' into the next kit radio I build.

72/73 KB0EMB Larry

Date: Wed, 16 Jul 1997 01:35:29 -0700
From: talljazz@teleport.com (Dan Presley)
To: qrp-1@Lehigh.EDU
Subject: [23156] SST-Lucky #13!
Message-ID: <v01530523aff234e3760a@[206.163.125.19]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Lucky #13 SST 20 is now alive & well (I think!). This is the kit I recieved as a prize for the "Bumblebee" event (to be held July 27) -I was the 13th person to sign up for the event through the Adventure Radio Club. Anyway, I finally finished the radio, and discovered I had intalled IC U5 backwards! I was able to unsolder (next time, sockets!), and even though I didn't think the chip would withstand being yanked on and slightly chipped (no pun intended), I was able to reinsert it correctly, and it seems to work fine. Tuning range is about 14040-058 w/ a 4.7 uH & a 1uH together at RFC 3 , so I may try to lower it a little more to move the range to above 060. Please listen for me tomorrow (Wed 7/16) at about 1700-1900 UTC around 14055 +-. This rig will be "Bumble-beeing" if all goes well! Thanks again to Russ & crew for the nice prize, and Russ, I will be contacting you soon for more detail on our 'secret location' for July 27!
Dan N7CQR

Date: Wed, 16 Jul 1997 02:50:51 -0700
From: Robert Everitt Heiss <rheiss@volta.ee.calpoly.edu>
To: qrp-1@Lehigh.EDU
Subject: [23157] Modifying a MOPA -- W1FB's Pebble Crusher Two
Message-ID: <199707160950.CAA29930@volta.ee.calpoly.edu>

Howdy! Does anyone have some experience with this little transmitter from W1FB's QRP Notebook, 2nd Edition? Especially if you've moved it to other bands besides 40, I'd like to compare notes.

We're not yet to the point of reporting successful QSOs, and best DX and all that. What follows is a progress report from the workshop.

What got me interested in the simple two-transistor rig was the recent Pixie success story, the notes encouraging a more traditional approach to QRP with simplicity, and reports of activity on 3686 kHz. My junk box already contained one of those rocks and a Pebble Crusher bare-board from Far Circuits.

It's not the ultimate homebrew without a scratch-built circuit, but I did at least drill a few holes to mount different-sized and additional parts. Doug's roomy layout allows for paralleling two capacitors when the right value isn't on hand. There was room to mount a VXO trimmer near the oscillator, and add a couple diodes and capacitors to measure RF voltage right near the output terminal. The little HC49 crystal is perched up on it's long leads because the layout is for HC6-type xtals.

There is a tuned network between the oscillator and PA, and another after the PA. Not content to just scale the inductance and capacitance numbers to 80 meters, I risked three changes. First, T1 is gone. Who wants to wind a transformer if it might not be necessary. Second, the load impedance was changed hoping for one watt output, instead of the half watt claimed by DeMaw. Third, an additional toroid at the output makes it a Pi-L network, which is theoretically cleaner.

It's assembled and the board looks kind of sloppy with a mixture of large, surplus parts and small, shiny new parts. The resistance check from power to ground seemed to fail because I forgot that ohmmeter puts out a negative voltage. Oops, there was no problem, so an adjustable supply was connected and turned up to 9, 12, and 14 volts.

No smoke! With a dummy load and a key, I can hear code on a nearby receiver and it sounds great! Okay, sounds like a keyed-oscillator

homebrew rig but better than some. Not bad for a start. I made some measurements.

Hmmmm, the oscillator runs more strongly than I expected, drawing up to 20 mA and the collector tuning makes little difference. The VX0 range is disappointing. I guessed at some changes to try and jotted down a list. On to the power amplifier, and it's a success! The efficiency is nearly 80% and as expected it gives a full watt output.

Into my antenna with 1.2:1 SWR the rig happens to make 0.95 watt, and continues to run cool. So cool that I think it wasn't really necessary to substitute a metal-can 2N3053 for the final; a plastic equivalent might survive at one watt.

Now I would like to tinker with it, trying some mods, but also there is the lure of making some QSOs in the near future. What to use for the receiver and how to change over the antenna are sticking points. Just turning my tuner around and using the antenna switch for TR did not give enough isolation; that resulted in an obnoxiously loud sidetone.

That's all so far for the 80 meter Pebble Crusher Two.

73, Rob K06KA
rheiss@volta.ee.calpoly.edu

Date: Wed, 16 Jul 1997 06:32:49 -0400
From: K4AHK@ix.netcom.com
To: adam-kanis@uiowa.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23158] Re: Something that isn't 'what is low-power thread'
Message-ID: <33CCA351.75B7@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well - Hot Glue - now there's a question that I had not even considered. I have used *lots* of hot glue to hold coils in place. I have filled the hole in the center of toroids that are flat mounted on circuit boards to hold them in place. For edge mounted toroids, I have mounted them in a 'puddle' of the stuff.

I recently built a Ten-Tec FM six meter transceiver that recommended literally potting the oscillator coil inside a shield can with hot melt glue. It works great and I didn't notice any detuning after applying the glue.

If hot-melt glue will cause problems in the future, I'm in trouble with several rigs. I'll be real interested in hearing from 'those who know'.

Bill - K4AHK

Date: Wed, 16 Jul 1997 06:43:43 -0400 (EDT)
From: NilsBull@aol.com
To: rakefet@rakefet.com, qrp-1@Lehigh.EDU
Subject: [23159] Re: Crap antennas & zip cord thread or wire or something
Message-ID: <970716064343_559082242@emout11.mail.aol.com>

Amigos,

In a message dated 97-07-15 16:26:50 EDT, rakefet@rakefet.com (Vic Rosenthal) writes: 50 feet long? What kind of elitist are you? I buried a hamstick in my back yard, fed with zip cord."

Hell, I went one better than that! First I cut the wire to the wrong length, hooked it up to the ARK30, tuned it up on the Rainbow bridge &c tuner and then went out with a hatchet and cut it (the antenna) up into small pieces which I then diligently collected and burned. Then I took the burned parts and put 'em in the garden next to the poison ivy. Then I got out the black-powder pistol, loaded it and shot at the pieces of buried, chopped up and burned antenna wire. Then I shoveled in some lime and mercury oxide and set a big fire of carpenter-ant-infested logs on top of the spot.

Then I went back to the ARK30 and had a QSO with a guy in Chile.

You shoulda been there. Them crazy hippies. Can we go back to real stuff now (knowing that I am the last person anyone would expect to be asking that question at all, if ever)?

73

Nils

WB8IJN &c

. . . and then I got hit by lightning 'cause I didn't put a knot in the wire what was buried and shot at and everything. . .

Date: Wed, 16 Jul 1997 08:03:44 -0700
From: Jack Dougherty /RE&C Houston <jdougher@wt.net>
To: qrp-1@Lehigh.EDU

Subject: [23160] Nice Paddles
Message-ID: <33CCE2D0.4E01@wt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Had a good mail order experience:

Got my new "kit" of Kent paddles last night in the mail, and had the "kit" put together in just 30 minutes.

For those new to this stuff (or a retread like me), it's hard to find out about quality keying gizmos that are out there. On advice of fellow club member, I found the Kent ad in back of QST (they run every other month), called the Mount Ida, AR number, they took plastic, and the paddles showed up 3 business days later, well packed.

Kit, consisting of about 20 parts including nuts, screws, etc., went together per the easy instructions needing only a screwdriver (Kent even provided the allen wrench for the one set screw used).

Sure is a nice looking paddle set - brass with heavy black base - beautiful. And they feel real good, adjust nicely, and I expect they'll stay in adjustment much better than my other 'brand X chrome' paddles that were always going out of whack, which was the main motivator to get a quality set of paddles.

Satisfied.....and no connection.

WA8GHZ /5
Jack /Houston

Date: Wed, 16 Jul 1997 09:11:02 +0100
From: "Bob Duckworth" <wb4mnf@atl.org>
To: <jadepro@reg.seresc.k12.nh.us>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23161] Re: 75W Category Proposal
Message-ID: <199707161307.JAA09063@atl.org>

Figure ERP because all antennas aren't the same.
Then figure ground losses cause all locations aren;t the same.
Next figure radiation angle because all antenna installations aren't the same. Radiation angle affects footprint so we'll have to figure that in but hey, time of day and azimuth affects strength at the RX and the RX antenna makes a difference and QRN and what about that crying baby

in the next room, I just can't copy as well when he's venting just before
nap
time and that darn helicopter that keeps circling ths house, You'd think
they think I'm up to something with RF and no antenna, gee I must be up to
no good down here, wait.... they are landing in the yard, where did all the
black
vans come from, arrrrrggghhhh.....

Date: Wed, 16 Jul 97 07:23:24 +0000
From: tgordish@concentric.net
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [23162] Re: NEW QRPer
Message-ID: <199707161420.KAA19078@newman.concentric.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Alan said:

> Got into QRP because it was cheapest way to start up.

QRP Folk,

Did you notice this post by a new ham. Like Alan, I am a QRP nut because
it is the cheapest way to start. I was discouraged by several hams who
said that running these single band pipsqueek rigs would not be any fun.
Boy were they wrong! What people don't seem to think about is that new
Hams have never had the luxury of big powerful expensive rigs, and so we
don't know what we are missing.

One of the reason QRP seems to be growing is that new hams don't have as
much cash to burn as those who have been around a while and been able to
build up a stock pile of cash. Also QRP is very "green" which is a
concern for X-generation type kids. This aspect of QRP operation should
by cultivated, and the SST's and 38's out there are heading in the right
direction.

72 de

Tim & Aretta Gordish
KB9LGJ & N0YDG
Yuma, AZ

QRP-L #457, ScQRPion #25, IDEA, ARRL
Rigs: 38-S, 20m-SST
WAS on 30m: 20 confirmed

**All the nations may walk in the name of their gods, we walk in the name
of the Lord our God for ever and ever" Micah 4:5**

Date: Wed, 16 Jul 1997 10:29:04 -0400
From: Rick Powell - WB6JBM <ripowell@mpna.com>
To: qrp-l@Lehigh.EDU
Subject: [23163] Re: NEW QRPer - My story
Message-ID: <1.5.4.32.19970716142904.002e2994@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My Story

I BEGAN in QRP because my ELMER was a proud owner of a Ten-Tek Argonaut 505!
Well, my First rig was and Argonaut 505.
QRP gives me a challenge. Overcoming that challenge gives me satisfaction.

I mean,,, come on,,,, If it were just about communications,,, I'd use my
cell-phone...

73

/rick

At 07:23 AM 7/16/97 +0000, tgordish@concentric.net wrote:

>Alan said:

>

>> Got into QRP because it was cheapest way to start up.

>

>

>

>QRP Folk,

>

>Did you notice this post by a new ham. Like Alan, I am a QRP nut because
>it is the cheapest way to start. I was discouraged by several hams who
>said that running these single band pipsqueek rigs would not be any fun.
>Boy were they wrong! What people don't seem to think about is that new
>Hams have never had the luxury of big powerful expensive rigs, and so we
>don't know what we are missing.

>

>One of the reason QRP seems to be growing is that new hams don't have as
>much cash to burn as those who have been around a while and been able to

>build up a stock pile of cash. Also QRP is very "green" which is a
>concern for X-generation type kids. This aspect of QRP operation should
>by cultivated, and the SST's and 38's out there are heading in the right
>direction.
>
>72 de
>
>
>Tim & Aretta Gordish
>KB9LGJ & N0YDG
>Yuma, AZ
>
>QRP-L #457, ScQRPion #25, IDEA, ARRL
>Rigs: 38-S, 20m-SST
>WAS on 30m: 20 confirmed
>
>**All the nations may walk in the name of their gods, we walk in the name
>of the Lord our God for ever and ever" Micah 4:5**
>
>
>
>
Argonaut 505 - MFJ 9020 - 38 Special
<http://www.mpna.com/ripowell> ripowell@mpna.com
WB6JBM/8/QRP Richard Powell
QRP-L - #1118 Cincinnati, OH
TENTEN - 13044

Date: Wed, 16 Jul 1997 07:32:04 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@Lehigh.EDU
Subject: [23164] OHR 100 & Tuning
Message-ID: <199707161432.HAA17032@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My new OHR 100 30 Meter rig is working fine, thanks to Gary AB7MY. All I could hear was C&W broadcast, so he took a look at it and found that it needed alignment (I still don't have the hang of what little test equipment I have, I guess). Anyway it works very well, and hears great!

But, the tuning is a little too coarse, so I dug into the junk box and found a 10 turn 100K pot. In it went, and what a difference it makes. The front panel was screened for the standard OHR 100's, so the markings weren't accurate anyway. With the DD-1 and the new tuning pot, I can really tell what's out there; no more passing stations up because I can't hear them.

If you have one of these rigs, try it...you'll like it.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ

Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=18 30=18 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=5

Date: Wed, 16 Jul 1997 08:48:25 -0600

From: AE0Q V31RY <v31ry@ix.netcom.com>

To: qrp-1@Lehigh.EDU

Subject: [23165] Re: QRP digital modes

Message-ID: <2.2.16.19970716144825.0a7fc64e@popd.ix.netcom.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 23:05 15-07-97 -0500, KA0GKC wrote:

> I thought I might add a story that could encourage a few of you

>to venture forth into QRP HF digital.

>

snip

>Over at Bill's shack we tried it on his tribander and after a couple of last

>minute adjustments we were locked in to our first station. He was located

>on the East Coast, sorry but I forget his call. Not bad for about 3-4

>watts. Absolutely great fun and the reaction we received from our contacts

>was one of amazement.

>

Just wanted to add that I've been using PacTOR with my Ten Tec Argo-556 lately, running the AFSK audio from the TNC into the front panel mic connector. Any of the QRP rigs that operate SSB can be used this way with no modifications. I've used both a Paccomm PacTOR unit and a KAM TNC.

PacTOR is an excellent QRP mode because it uses error-correction to reconstruct broken blocks of data (Packet, Amtor and RTTY cannot do that).

I found the little Paccomm PacTOR controller used last winter for \$100, so

it doesn't have to be a big expense..

Give QRP PacTOR a try, it's a blast!

73 -- Glenn

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com --SOWP 5558-M, ARRL LM, QCWA LM, NCVA--
<http://www.qsl.net/ae0q>

Date: Wed, 16 Jul 1997 10:56:15 -0400
From: Joseph Trombino jr <joebarb@wilmington.net>
To: QRP-L@Lehigh.EDU
Subject: [23166] Homebrew Sprint and OHR-400
Message-ID: <3.0.1.32.19970716105615.006865a0@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Gang: Was fortunate enough to get my new OHR-400 built and aligned with some time still left in the ARCI Homebrew Sprint. The OHR-400 came right up after applying power (I am not usually so lucky) and the alignment went smoothly. 40 meters was really crowded so switched to 20 meters and worked about 15 QSOS there. What a hot receiver in the OHR-400 --QSK is smooth and thump-free --the audio filter makes signals seem to jump out at you. Dick at OHR said he only had a few of these rigs left (I guess I was lucky to get one). I have built several QRP kits over the years and this rig is easily the best of the lot. I guess I should throw in the obligatory disclaimer--I have no financial relationship with OHR (except for spending money buying kits!!!)--just a very satisfied customer. I believe this radio will be a classic some day.

Cheers and 72/73, Joe W2KJ
A.R.C.I., MI clubs

email:
joebarb@wilmington.net

Date: Wed, 16 Jul 1997 10:55:34 -0400

From: Joseph Trombino jr <joebarb@wilmington.net>
To: QRP-L@Lehigh.EDU
Subject: [23167] Homebrew Sprint and OHR-400
Message-ID: <3.0.1.32.19970716105534.0068e668@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Gang: Was fortunate enough to get my new OHR-400 built and aligned with some time still left in the ARCI Homebrew Sprint. The OHR-400 came right up after applying power (I am not usually so lucky) and the alignment went smoothly. 40 meters was really crowded so switched to 20 meters and worked about 15 QSOS there. What a hot receiver in the OHR-400 --QSK is smooth and thump-free --the audio filter makes signals seem to jump out at you. Dick at OHR said he still had some of these rigs left (I guess I was lucky to get one). I have built several QRP kits over the years and this rig is easily the best of the lot. I guess I should throw in the obligatory disclaimer--I have no financial relationship with OHR (except for spending money buying kits!!!)--just a very satisfied customer. I believe this radio will be a classic some day.

Cheers and 72/73, Joe W2KJ
A.R.C.I., MI clubs

email:
joebarb@wilmington.net

Date: Wed, 16 Jul 1997 08:28:33 -0700
From: "Earl S. Mead" <k6esmead@pacbell.net>
To: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Cc: qrp-l@Lehigh.EDU
Subject: [23168] Mobile QRP HF continues...
Message-ID: <33CCE8A0.D182571E@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

HI Scott.

An article on page 56 of the July 97 issue of CQ Magazine, World Of Ideas by Dave Ingram, K4TWJ, photo 1, may contain some useful information on a low antenna mount similar to what you describe. Hope this helps.

72s, Earl, K6ESM

--

Ah, the wonder of it all.

Date: Wed, 16 Jul 1997 10:30:51 -0500
From: Paul Cereste <cereste@myapc.com>
To: qrp-1@Lehigh.EDU
Subject: [23169] half square
Message-ID: <s3ccb0ae.062@myapc.com>

I think I've seen this antenna design mentioned on here before, so maybe someone can help me. I borrowed a MFJ -9420 yesterday, and am thinking of trying a half square with it for the next few weeks. What are the dimensions for, say 14.200? I know its basically 1/2 wave on the top and 1/4 wave on the two legs, but I get mixed info from various sources, such as should the two vertical legs be equal? I think they should be, but have been told they should be 6" different. Is the top really 1/2 wave or is there a velocity factor multiplier? I'm planning to use 14 AWG copper, fed with RG-213.

Is the short leg connected to the braid, or does it make no difference?

73, Paul K1CGZ

Date: Wed, 16 Jul 1997 09:55:06 -0600
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-1@Lehigh.EDU
Subject: [23170] gif images for qsl cards !!
Message-ID: <33CCEEDA.20D8@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

72 de KA2QPG,
Pierre Thomson

Date: Wed, 16 Jul 1997 11:20:59 -0500
From: "Mike B. Allred" <mallred@fscu.org>
To: qrp-1@Lehigh.EDU
Subject: [23172] rainbow tuner
Message-ID: <33CCF4EB.6FC3@fscu.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi fellas,

Does the New Jersey QRP club still kit out the rainbow tuner? If so,
how do I get some info.

Thanks,
Mike

--

Phone: (205)340-2000 ext.2036
Wats: (800)239-5515
Fax: (205)340-2047
mailto:mallred@fscu.org
PGP key at MIT
AR: KU4GU

Date: Wed, 16 Jul 1997 09:58:42 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [23173] Miles per watt
Message-ID: <01BC91CE.DA91A5C0@pps-pc10.gw1.com>
Content-Type: text

I did it!!! I broke the 1,000 miles per watt thingie. This is the results
from my first ever 30M QSO and I did it on a stock 38 Special. Per my watt
meter I was less than 1/2 watt out, that's over 2,026 miles per watt (if I
worked my calculator correctly)

This is S000 Cool. And people say were at the bottom of the cycle - I can't
imagine what it will be like when were at the top - I'll be talking to my

self with 0.10 watts.

De KB0ROL, Brad

P.S. My Power Meter is the one on my 300W MFJ tuner set on the 30W level, so I'm really guessing as to my actual power. What is the maximum power out people have been getting on there stock 38 Specials?

Output from stdout:

KB0ROL ZIP = 80017

N7MOB QTH = BOWES, WILLIAM E

31132 14TH AVE SW

FEDERAL WAY WA 98023

no geo info found for 80017, looking for AURORA, CO

KB0ROL Lat/Long = 39 43 46 N 104 49 53 W

N7MOB Lat/Long = 47 18 27 N 122 13 38 W

Output from "gc 39.4376N104.4988W 47.1845N122.1363W":

Bearing is 307 Degrees for 880 Nautical Miles = 1013 Miles = 1630 Km

Date: Wed, 16 Jul 1997 13:52:04 -0400 (EDT)

From: Chris Cartwright <ccart@dns.vidtel.com>

To: QRP Reflector <qrp-l@Lehigh.EDU>

Subject: [23174] Re: NEW QRP'er

Message-ID: <Pine.LNX.3.93.970716132414.875A-100000@dns.vidtel.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 16 Jul 1997 tgordish@concentric.net wrote:

> One of the reason QRP seems to be growing is that new hams don't have as
> much cash to burn as those who have been around a while and been able to
> build up a stock pile of cash. Also QRP is very "green" which is a

Well as a "new" ham, who waited until he was "old" to start playing radio, I'm having a blast with QRP! And while I don't have money to burn, I'm fairly sure I'm much better off financially than a lot of those starting in the hobby. I have an IC735, the DX70T, and a handful of

other commercial rigs, but they don't see anywhere near as much airtime as the kits and homebrews I have around. It's just more fun, to me, to play with something I put together myself, and didn't cost a wheelbarrow full of money. It almost feels like you're "getting away with something" when you talk to the FT1000MP's with the linear on your \$25 kit that you were too cheap to put in a case :)

Now this is a bit biased, since I've never run QRO, don't chase DX, or contest. But the thrill of talking to someone hundreds or thousands of miles away on the power of a watch battery... That, in my mind, is the magic of radio. But QRO, QRP, QRPP, whatever, if you're not having fun do something else. 72

```
-- Chris Cartwright,   Technical Engineer   |      ccart@vidtel.com      --
-- N3XRV               QRP WAS 17/9 (w/c)   |      ccart@erols.com      --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #????? | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --
```

Date: Wed, 16 Jul 1997 18:32:56 +0100
From: "Frank, G3YCC." <g3ycc@gqrpcclub.demon.co.uk>
To: qrp-l@Lehigh.EDU
Subject: [23175] Epiphyte 2, more
Message-ID: <WLaYx0AIXQzzEw0y@gqrpcclub.demon.co.uk>
MIME-Version: 1.0

My last mail mentioned the problems I had with the VF0. Now sorted it out by playing with capacitors C15 and C17, finally substituting a 1500 pf for C15 (was 2200 pf). With the original value and using the J310 provided in the kit it would not oscillate at 4.2-ish mhz, only lower in frequency.

Must say the Rx sounds excellent! Haven't as yet done the Tx side set-up.

Wonder if anyone has any ideas for a frequency indication using the volts on the 10 turn pot? Have tried an edgewise meter with series resistor to read the volts on the wiper, but it is rather cramped. Perhaps some sort of simple LED system. Obviously a digital read out is out because of the lack of space in the box made for the rig. Open to ideas, maybe a bargraph...

Anyone else made/making an EP2 in UK? May be able to try a sked (if the Tx functions OK!).

--
Frank, G3YCC.

Date: Wed, 16 Jul 1997 12:49 CDT
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\) 267-3135)
To: claudewb9euu@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [23176] Re: TRAC keyer
Message-ID: <009B756F3B2F43D6.131E@dnr.state.wi.us>

I have a TRAC keyer (don't recall the model no.). If I am not mistaken, I believe the problem you are experiencing has to do with the wiring of the key and/or key jack. When I have attempted to switch keys from the TRAC keyer to another keyer, I have needed to re-wire the key plug for the key to function properly.

The convention that my current Icom rigs use is for the sleeve to be ground, the tip dit and the ring dah. These rigs also have the ability to handle a reversal of the dit and dah lines. The TRAC keyer may use the tip (or the ring?) as ground.

Hope that helps, 73 (es 72) de N9WR.

Date: Wed, 16 Jul 1997 11:07:27 -0700
From: chunt@macromedia.com (Christian Hunt)
To: qrp-1@Lehigh.EDU
Subject: [23177] Re: HELP, my SST howls
Message-ID: <v02140b00aff2bcd88f92@[198.95.203.216]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I just finished build my 30M SST, it seems to work well, except for the
>fact that the receiver starts to howl (go into feedback or oscillation)
>when I tune to a strong signal and the volume is turned all the way up.
>If I back down on the volume, the howling stops. While it is howling, the
>AGC LED is pegged.

I have a similar problem on my 40m SST. If I have the AF gain fully clockwise and I key, after releasing the key, I get a howl that gradually fades away. It's loud enough to cause a buzz in my headphones.

Mine is pretty much stock except has a wider filter. This doesn't seem to be the cause as the howling occurred without it as well.

73, KF6IHU

Date: Wed, 16 Jul 1997 12:21:39 +0000
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU
Subject: [23178] alias assumed
Message-ID: <199707161823.MAA03562@lynx.csn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Time to change my identity-- too many people looking for AA0XI [g]

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
<http://www.mtechnologies.com/mthome>
(303)752-3382
--

Date: Wed, 16 Jul 97 11:44:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU
Subject: [23179] Tunerless 40M Dipole

I'm preparing material for a presentation at Ft. Tuthill. The presentation will cover high-efficiency, tunerless, center-fed-with-twinlead (or ladder-line), wire antennas. Here's a preview:

How about a 40m dipole, fed with twinlead, that requires no tuner and gives an almost flat, low SWR all across the band? Here's how:

Make the dipole 66 feet long and fed in the center with about 49 feet (~1/2 wavelength) of 300 ohm twinlead. Feed the twinlead through a 1:1 bead choke/balun and adjust the 300 ohm feedline length for lowest SWR at 7.3 MHz. Put a connector on the twinlead. Prepare three pieces of twinlead, the first is one foot long, the second is two feet long, and the third is four feet long. Put connectors on these pieces of twinlead. Now you can add zero to seven feet to the feedline in one foot increments. With seven feet

in the circuit it will have a low SWR at 7.0 MHz. With zero feet in the circuit it will have a low SWR at 7.3 MHz. Other combinations of length will give a low SWR on any frequency between 7.0 and 7.3 MHz. The 50 ohm SWR is almost identical to the minimum SWR using coax feed.

So for backpacking, we have traded our heavy lossy expensive coax for light weight, near-lossless 300 ohm twinlead. We have traded our heavy lossy expensive antenna tuner for three relatively short pieces of 300 ohm twinlead. We have moved the relatively heavy balun from the antenna to the transmitter. (AND we can use this antenna on all other HF bands above 7.3 MHz).

73, Cecil, W6RCA, OOTC

Date: Wed, 16 Jul 1997 14:51:19 -0400
From: Rick Powell - WB6JBM <ripowell@mpna.com>
To: qrp-1@Lehigh.EDU
Subject: [23180] Re: Miles per watt
Message-ID: <1.5.4.32.19970716185119.002e70c8@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Congrats!!!!!! Display the certificate proudly! it IS a significant accomplishment!

73
/rick

At 09:58 AM 7/16/97 -0600, bmug@gwl.com wrote:

>
>I did it!!! I broke the 1,000 miles per watt thingie. This is the results
>from my first ever 30M QSO and I did it on a stock 38 Special. Per my watt
>meter I was less than 1/2 watt out, that's over 2,026 miles per watt (if I
>worked my calculator correctly)
>
>This is S000 Cool. And people say were at the bottom of the cycle - I can't
>imagine what it will be like when were at the top - I'll be talking to my
>self with 0.10 watts.
>
>De KB0ROL, Brad
>
>P.S. My Power Meter is the one on my 300W MFJ tuner set on the 30W level,
>so I'm really guessing as to my actual power. What is the maximum power
>out people have been getting on there stock 38 Specials?
>

>
>Output from stdout:
>KB0ROL ZIP = 80017
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> 31132 14TH AVE SW
> FEDERAL WAY WA 98023
>
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>
>Output from "gc 39.4376N104.4988W 47.1845N122.1363W":
>
>Bearing is 307 Degrees for 880 Nautical Miles = 1013 Miles = 1630 Km
>
>
>
>
>
>
>
Argonaut 505 - MFJ 9020 - 38 Special
<http://www.mpna.com/ripowell> ripowell@mpna.com
WB6JBM/8/QRP Richard Powell
QRP-L - #1118 Cincinnati, OH
TENTEN - 13044

Date: Wed, 16 Jul 97 11:57:59 -0700
From: Russ Carpenter <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [23181] First Reminder for the FLIGHT OF THE BUMBLEBEES
Message-ID: <199707161857.LAA16195@guppy.pond.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: quoted-printable

This is the first reminder for Flight of the Bumblebees, to be held =
on Sunday, July 27.

The Bumblebees are hams who have walked, biked or boated to their =
operating sites. We have a roster of 50 Bumblebees in all parts of =

the country, from Hawaii to Vermont. We are hoping to attract a =
sizable group of hams operating from their homes, chasing these =
little rascals, and chasing each other.

Here are the rules for this uncommonly entertaining event:

1. This is a four hour event, running from 10:00 PDT/11:00 MDT/12:00 =
CDT/1:00 EDT to 2:00 PDT/3:00 MDT/4:00 CDT/5:00 EDT. Thus, the hours =
of operation accommodate all four time zones. No matter where you =
live, there is time to for the Bumblebees to travel to their sites, =
set up their stations, operate the contest, and travel back to their =
cars.
2. Both home-based and portable operations are encouraged. Those who =
walk, bike or boat to their sites are Bumblebees and sign /BB. The =
distance travelled to the site is at the Bumblebee=B9s discretion.
3. Maximum power is five watts. We operate CW on 40, 20, 15 and 10 =
meters, on the standard QRP frequencies. We want this to be a =
national contest, so we encourage long-range contacts by giving =
double points for 20, 15 and 10 meters. 40 meter contacts will =
receive one point. The same station can be worked on different bands =
for additional QSO points and multipliers.
4. Contacts with bumblebees generate a 3X multiplier. So your score =
equals QSO points times (number of bumblebees times three). Here is =
an example. If you make 20 contacts on 40 meters and 30 contacts on =
the higher bands, and make a total of 25 Bumblebee contacts, your =
score is (20+60) X (25 X 3), or 6,000.
5. The exchange is RST, state/province/country, and your first name.
6. Separate but equal prizes are awarded to the home-based and =
Bumblebee winners.
7. Participants may submit paper logs, with a two week deadline. Or =
participants may choose to use the ARS automated contest reporting =
system on the ARS web site. Results are posted during the third week =
of August on the QRP-L, the ARS web site, and the ARS membership =
emailing system. For those who send us SASEs, we mail a paper copy of =
the results.
8. Russ Carpenter, AA7QU, is the Contest Manager. Mail paper logs to =
him at 47227 Goodpasture Road, Vida, OR 97488. You can reach Russ in =
the following ways:

- By mail, at the foregoing address
- By phone, at (541) 896-0263
- By fax, at (541) 896-0310
- By email, at russ@natworld.com
- By the automated email system located within the ARS web site at =
<http://www.natworld.com/ars>.

Date: Wed, 16 Jul 97 11:58:01 -0700
From: Russ Carpenter <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [23182] First reminder for the AUGUST SPARTAN SPRINT
Message-ID: <199707161857.LAA16198@guppy.pond.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

The August Spartan Sprint will be held on August 4 (which is our standard date--the first monday of the month). We'll operate on two bands--40 and 20. DON'T WORRY IF YOUR STATION IS A BIT TUBBY. WE COMMEND THE WINNERS IN TWO CATEGORIES--POINTS, AND POINTS PER POUND.

If you are a newcomer to the Sprints, take a look at the introductory material at the end of this post.

1. Start at 9:00 PM EDT, 8:00 CDT, 7:00 MDT and 6:00 PDT.
Finish at 11:00 PM EDT, 10:00 CDT, 9:00 MDT and 8:00 PDT.
2. The frequencies will be 7040+- KHz and 14,060+- KHz. (You may operate one or two bands--your choice.)
3. Exchange RST, SPC (state, province or country) and power output.
4. If you choose to call CQ, use the format "CQ SP".
5. You can take credit for working the same station on a second band.
6. To encourage QRPers to discover that there is life outside 40 meters, we'll give double points for contacts on 20 meters.

After the contest, send Russ Carpenter, an e-mail with your total QS0s and the total weight of your station (i.e., the combined weight of the transmitter, receiver, key, keyer and battery). You may also include your comments from the soapbox. Russ' email address is russ@natworld.com.

As an alternative, you can use our automated Spartan Sprint report at the ARS web site. Just fill in a few boxes, click the "submit" button, and

you're done! You can get directly to the report page with this URL:
http://www.natworld.com/ars/events/spartan/submit_spartan.html. Or you
can take a more leisurely (and rewarding) stroll through the ARS site by
going to the home page at <http://www.natworld.com/ars>.

Russ will be on a hiking trip during the first week of August, so there
will be a little delay in reporting the results. Expect them to be posted
on the QRP-L around August 14.

The Spartan Sprint is based on a simple but stimulating concept. We are
encouraging all of you to cobble together the kind of station you'd use
in a portable environment--lightweight transceiver, keyer, key, and
battery. Then put that turkey on the air, and participate in a
two hour sprint.

All operators are invited to play, whether or not they are members of
Adventure Radio Society. Even if you don't have lightweight equipment,
your participation will be rewarding, both for you and the other
participants. We'll report the score in two different formats--absolute
scores, and points per pound of station weight. So you can get your kicks
from running up a magnificent score, or achieving an remarkable ratio of
points per pound.

<P>

ARS provides handsome certificates to the operators who achieve the top
two scores in points, and points per pound.

If you're thinking about becoming a member of Adventure Radio Society,
just send Richard Fisher (our membership chairman) an e-mail expressing
your interest. Richard's e-mail address is KI6SN@juno.com. Membership is
free, and the organization has a great group of men and women who combine
their love of ham radio with their affection for the outdoors. You don't
need to be a macho person; ARS welcomes people of all ages and levels of
ability.

72, Russ Carpenter, AA7QU, Contest Manager
russ@natworld.com

Date: Wed, 16 Jul 1997 12:27:34 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [23183] Re: Miles per watt
Message-ID: <199707161927.MAA07985@usr10.primenet.com>

Brad (KB0ROL) wrote:

> I did it!!!! I broke the 1,000 miles per watt thingie.

Way to go! Don't forget the ol' 1000 Miles/Watt award. You can get one for the critter on the other end too. Think I'll start doing this for some of the DX ops I work. Nice bit of QRP diplomacy/schmoozing. QRP - Taking over the world, one ham at a time. :)

> This is S000 Cool. And people say were at the bottom of the cycle - I
> can't imagine what it will be like when were at the top - I'll be talking
> to my self with 0.10 watts.

Interesting dilemma - when you call QRL? and hear yourself, do you rudely take the freq from yourself, or do you sit back and politely wait for yourself to finish? Hmmm.... And what about QSLing yourself?

Great, now my brain hurts again....

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"'Fraid nobody around here, understands my potato;
Think I'm only a Spudboy, looking for a real tomato." -DEVO

Date: Wed, 16 Jul 1997 15:30:47 -0400
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [23184] CB Conversion: Crystal mixing schemes
Message-ID: <v03102803aff2bfa9004a@[132.235.72.186]>
MIME-version: 1.0
Content-type: text/enriched; charset="us-ascii"
Content-transfer-encoding: 7BIT

Gang,

Here is a primer on one of the most common frequency producing schemes of CB trancivers. (Remember that CB's operate in the SIMPLEX mode, that is, they transmit on the same frequency that they receive

on.) These use a series of crystal oscillators to produce the 23 channels that we are all familiar with. The crystal line up in these transceivers are as follows:

(IN MEGAHERTZ)

There are 6 heterodyning crystals:

- A. 37.600
- B. 37.650
- C. 37.700
- D. 37.750
- E. 37.800
- F. 37.850

There are 4 Transmitting crystals:

- G. 10.595
- H. 10.615
- I. 10.625
- J. 10.635

There are 4 Receiving crystals

- K. 10.140
- L. 10.160
- M. 10.170
- N. 10.180

I have a Commando 2310 CB that has this crystal line-up. Just how does it produce the 23 channels from just 14 crystals? Actually it is very simple.

For operating on Channel 1, 26.965 mhz, the heterodyning crystal "A" is used as a continuous oscillator on transmit and receive.

TRANSMITTING Channel 1: Crystal A, 37.600 mhz, is mixed with crystal J, 10.635mhz, in a subtractive mode to get the correct freq:

$$37.600 - 10.635 = 26.965\text{mhz or channel 1}$$

RECEIVING Channel 1: Crystal A, 37.600 mhz, is mixed with crystal N, 10.180 mhz, again in subtractive mode to get:

$$37.600 - 10.180 = 27.42 \text{ mhz}$$

Ooops! 27.42 is not channel 1. Well, if we subtract the IF (Intermediate Frequency) of .455 mhz (455khz) lets see what we get:

$$27.42 - .455 = 26.965 \text{ mhz... or our channel 1!}$$

All of the other frequencies are produced in the same manner. Notice that Channel 23 is the only one that is 30 khz away from the last channel, the others are 10khz or 20 khz away. (The "secret" Channel 22a can be had by using crystals F and H for transmit and F and

L for receive. 27.235 mhz) Notice the crystal pairing scheme in the following chart:

(T= Transmit Xtal=crystal R=Receive)

Channel Frequency T XTAL R

=====

1	26.965	AJ	AN
2	26.975	AI	AM
3	26.985	AH	AL
4	27.005	AG	AK
5	27.015	BJ	BN
6	27.025	BI	BM
7	27.035	BH	BL
8	27.055	BG	BK
9	27.065	CJ	CN
10	27.075	CI	CM
11	27.085	CH	CL
12	27.105	CG	CK
13	27.115	DJ	DN
14	27.125	DI	DM
15	27.135	DH	DL
16	27.155	DG	DK
17	27.165	EJ	EN

18	27.175	EI	EM
19	27.185	EH	EL
20	27.205	EG	EK
21	27.215	FJ	FN
22	27.225	FI	FM
23	27.255	FG	FK

This should be of interest to the group that is going to try and convert the CB transceivers to 10 meters. By using a different hetrodyning crystal, it would be possible to move up to the 10 meter band with 4 channels per crystal.

Lets say that we change crystal A to 38.940 mhz. That will give us 4 new channels. Where will that get us in the Novice 10 meter band?

A 38.940 - J 10.635 = 28.305 mhz

A 38.940 - I 10.625 = 28.315 mhz

A 38.940 - H 10.615 = 28.325 mhz

A 38.940 - G 10.595 = 29.345 mhz

This is just an example. There would be the retuning of the transmitter chain and the hetrodyning oscillator to accomplish the above. Please keep us informed as to anyones progress/problems, etc. I will pass on my results as I try and convert my Commando 2310.

Could anyone here on QRPL explain the conversion, (in general terms as I have done here) of the CB's that have the PLL02 and PLL03 or other type phase lock loop frequency synthesizers? What to change, etc.

Do we have a standard frequency/channel scheme yet? May be a good question for Ed Manuel. (Ed Manuel, N5EM, is the "Grand Keeper of the Frog Pelt," concerning the CB conversion schemes, so many thanks to him for keeping the interest alive.) Ed also suggested to look for schematics from various sources, Sams Photofacts, etc. as an aid.

vy 72 to all and hopefully will be seeing you on 10 m AM!

```
*
*
* NN    N  SSSSSSS 8888888 0000000 Greg Weinfurtner AEE BSS *
* N N   N  S      8    8 0    0 Electronic Design Splst *
* N N   N  SSSSSSS 8888888 0    0 Ohio University Athens *
* N    N N      S 8    8 0    0 GO BOBCATS!                *
* N     NN  SSSSSSS 8888888 0000000                        *
*
* "Can thou send forth lightnings that they may go and say *
*      unto thee, 'Here we are'?" Job 38:35                *
*
*
*      weinfurtner@ouvaxa.cats.ohiou.edu                    *
```

* <http://ouvaxa.cats.ohiou.edu/~weinfurtner> *

Date: Wed, 16 Jul 1997 15:38:01 -0400 (EDT)
From: Steve Bornstein <saborns@freenet.columbus.oh.us>
To: Multiple recipients of list <qrp-l@Lehigh.EDU>
Subject: [23185] Blue Sky Digial Display
Message-ID: <Pine.3.07.9707161501.A10245-71000000@login>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

G'day All,

Has anyone received their digital display yet?

73, Steve K8IDN

Date: Wed, 16 Jul 1997 13:01:16 -0700
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <saborns@freenet.columbus.oh.us>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23186] Re: Blue Sky Digital Display
Message-ID: <199707162000.PAA25992@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Steve --

Your timing is perfect! I just sent a letter out to all those who have ordered the digital display kits. There has been a delay with the PC boards, but they are now expected to arrive in two weeks. The kits are ready to go as soon as the boards arrive.

Mike K1MG

> From: Steve Bornstein <saborns@freenet.columbus.oh.us>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Blue Sky Digial Display
> Date: Wednesday, July 16, 1997 12:38 PM
>
> G'day All,
>
> Has anyone received their digital display yet?
>
> 73, Steve K8IDN
>
>

Date: Wed, 16 Jul 97 14:05:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-l@Lehigh.EDU
Subject: [23187] 1:1 Choke/Balun

The 1:1 choke/balun that I use is the W2DU type - beads over coax. About a foot of these #77 critters is what one needs for HF. Use twice as many for 160m. Amidon FB-77-5621 will fit RG-58 and one needs about 10 of them. FB-77-1024 will fit RG-213 and one needs about 14 of them. FB-77-6301 with an id of .194 will fit RG-174 or RG-316 (teflon) and one needs about 25-30 of them.

What these beads do is resist the flow of RF current on the outside of the coax braid. Each one has a certain amount of reactance and when you add them up the current obeys Ohm's law and flows to the point of least impedance, i.e. the current maximum point of the twinlead instead of the coax braid..

73, Cecil, W6RCA, 00TC

Date: Wed, 16 Jul 97 15:19:34 MDT
From: Dale Anderson <dalea@artemis.fc.hp.com>
To: qrp-l@Lehigh.EDU
Subject: [23188] Re: 1:1 Choke/Balun
Message-ID: <9707162119.AA28353@artemis.fc.hp.com>

(Cecil, W6RCA wrote):

>The 1:1 choke/balun that I use is the W2DU type - beads over coax.

Well, I've always used the coil of coax at the feedpoint trick for this purpose, but I have one question about this method. How critical is the inductance of this "choke"? I mean, I usually just wind them per the ARRL antenna book, something like 8 turns around a 6" form (can't recall off-hand), but what if I'm using RG-58 and the form is much smaller, say 2" and I wind some 15 turns? How critical is it all? Based on the lack of information I've seen on this, one could assume it isn't that critical at all. Comments? Also, which method is more effecient (electrically), the coil or the ferrite?

Thanks,

-Dale, KB0VCC

Fort Collins, CO

QRP-L #91 / CQC #251

ARS #234 / FISTS #3172

Date: Wed, 16 Jul 1997 17:27:15 -0400

From: Ed Pacyna <pacyna@auratek.com>

To: dalea@artemis.fc.hp.com

Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [23189] Re: 1:1 Choke/Balun

Message-ID: <3.0.16.19970716172714.474f52b4@dingle.auratek.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 03:19 PM 7/16/97 MDT, Dale Anderson wrote:

> Well, I've always used the coil of coax at the feedpoint trick
> for this purpose, but I have one question about this method. How
> critical is the inductance of this "choke"?

snip....snip

> Based on the lack of information I've
> seen on this, one could assume it isn't that critical at all.
> Comments? Also, which method is more effecient (electrically), the

> coil or the ferrite?

The current issue of QEX has a technical analysis (by Sabin) on choke baluns.

Ed
W1AAZ

Date: Wed, 16 Jul 1997 14:43:16 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: Homebrew Amateur Radio Discussion <homebrew@qsl.net>
Subject: [23190] Coaxial Cable Ratings
Message-ID: <33CD4074.7AF7@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

<http://www.stormproducts.com/cable/rgcoax.htm>

Someone asked about this and I did a search.
Pretty Good information.

<http://www.stormproducts.com/cable/index.htm>
Is the next Higher Link.

Nice information to have around.

-Ed Loranger

--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#???? grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 16 Jul 1997 14:51:40 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: NilsBull@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [23191] Re: Badgers organizing, getting dangerous?
Message-ID: <199707162151.0AA09849@usr06.primenet.com>

Nils wrote:

> > In a message dated 97-07-11 10:35:04 EDT, vole@primenet.com (Joe Gervais)
> > writes: "They're furry. They're pernicious. They're on the air. Be afraid.
> > Be very afraid."
>
> Believe me, Brother Joe, I am. I am afraid (huh!) of any of they-em (huh!)
> whooo dew not belieeeeve (huh!) in the true power (huh!) of theeeese
> furrrieyeee critters (huh!)! Does it not say (huh!) in Connptions 1:49
> (huh!) that "Theyeee willl (huh!) find yew (huh!) in the nigheet (huh!)
> and chewwww (huh!) on your coaaaxxxxx(huh!) "?"

>From the Book of Badgers 72:559

"And lo, they looked down across the land, which was sweet with
Pop Tarts, and tribanders, and foam-filled coax. And they did
descend upon the valley, the evil hoard, a dark seething cloud
of furry RETT...TRIBBYOOSHUN! And the fertile antenna farms were
trampled, yea verily, and nibbled, coax and ladder line torn asunder
in their horrid wrath. And the hams did gnash their teeth, and wrend
their clothes, which were of finest polyester. For they knew the
Day of Badger Reckoning was at hand. And lo, only those who had
called "QRL?" faithfully, and listened for replies thereof, who had
carefully and diligently shaped their keying waveform, who had
patiently suffered the mistakes and sloppy fists of others, only
they would be spared the terror. So it is written. So it shall be.
Nee!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And now... The exploding Blue Danube."

Date: Wed, 16 Jul 1997 14:54:20 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: Homebrew Amateur Radio Discussion <homebrew@qsl.net>
Subject: [23192] Coax and Balanced + other at
Message-ID: <33CD430C.B38@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Proving no commercial attachment, you can also
check out:
<http://www.therfc.com/>

Some nice tables too!
-Ed Loranger

--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#???? grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 16 Jul 1997 11:32:56 -0600
From: ji3m@maxwell.com (James R. Duffey)
To: kb0rol@juno.com (Bradley L Mugleston)
Cc: qrp-L@Lehigh.EDU
Subject: [23193] 30 M Loop and Alternatives
Message-ID: <v02130500aff2a63b8beb@[192.31.66.229]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Brad - You don't need to build a new loop for 30M, your 40M loop should work fine on 30M. It will be 1.3333333... wavelengths in circumference. The easiest way to feed it is to add enough balanced line to yield a mostly resistive feedpoint. This will be (approximately) when there is an integer multiple of halfwaves in the wire length used for the loop and feedline. This should require you add about 2.5 M of balanced feeder to the 40 M loop, which will add about 5M of total wire length (2.5 M for each side of the feedline) for a total of 45M of wire or 3 half waves on 30M. The feedpoint impedance will be resistive and should be about 150 Ohms or so. You can get a reasonable match using a 1/4 wave series transformer made from 92 Ohm coax; RG-62, which is obtainable, although not widely available.

Alternately, if your feedline run is short, you should be able to load the 40 M loop on 30 M with satisfactory results with most tuners.

As yet another alternate you can supplement your 40M horizontal loop with a 30M loop oriented vertically. You can load this on 40M by adding 5 M or so of balanced feeder to bring the total length of wire in the feedline/loop to 40M. The feedpoint resistance at this point will be 50 to 75 Ohms depending on many things, but it will be a reasonable match to 50 Ohm or 70 Ohm coax. You can also use this on 20M with a 1/4 wave transformer. These two antennas should have different radiation patterns

and you can use either on either band so you will have your choice of antennas for different situations. You can never have too many antennas :-)

These antennas will work on other bands either as is, or with some additional wire length. I would be careful using them on bands where the loop circumference is 2 wavelengths or greater as pattern breakup can put much of your power in uninteresting directions. This is a problem with long antennas in general, not just loops. If the main radiation lobe is in an interesting direction when the antenna is used at low frequencies, the lobes when used at higher frequencies are not likely to be in the same interesting directions. I don't want to imply that long antennas don't work, they do, just that one should be aware of their limitations, particularly when used as multiple band antennas.

As you know, I like loop antennas and encourage everybody to have one or two. Let us know what you end up with and keep on looping. - Duffey KK6MC/5

James R. Duffey
Principal Scientist

(505) 764-3143
(505) 843-7995 (FAX)

Maxwell Technologies Incorporated/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

Date: Wed, 16 Jul 1997 21:56:03 +0100
From: Stephen John Farthing <stephen@stevef.demon.co.uk>
To: qrp-l@Lehigh.EDU
Subject: [23194] Price for Alinco DX-70 T in USA please
Message-ID: <H5SiyHAjVTzzEw\$E@stevef.demon.co.uk>
MIME-Version: 1.0

Please would someone post the price in US Dollars of the Alinco DX-70T and details of a reliable supplier. Given the high exchange rate of the UK pound against the US Dollar this might be a really good deal.

The DX 70-T is a 100W HF all mode + 10 W 6M Tcvr with general coverage RX and variable power output. It has all filters fitted as standard. The current UK price is UKP 695 which is about \$1196.

Thanks

--

Stephen John Farthing MBCS G0XAR

Melksham, Wiltshire UK
RSGB G-QRP 7766

Date: Wed, 16 Jul 1997 18:41:56 -0400 (EDT)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: qrp-l@Lehigh.EDU
Subject: [23195] WTB insulated shaft coupler
Message-ID: <Pine.GS0.3.96.970716183614.8335A-100000@joxer.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I broke the insulated, flexible shaft coupler for my antenny-tuner.
The broken one is plastic and made to fit a 1/4" shaft on each end.
The unit is 5/8" long and 5/8" wide.

It is used on one of the caps in my Yaesu "man pack" tuner FC70M.
It is the matching tuner for the FT70GC Man pak transceiver.

Naturally anything close is OK. Does anyone have one of these buggers?

I probably have one somewhere in my house :-) but I can't find it :-(

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

End of QRP-L Digest 789

